British Corrosion Journal — Annual contents 1996

Corrosion of PVC coated steel during thinning of 0·5M NaCl electrolyte layer
S.-M. Moon and S.-I. Pyun 35
Implications of hydrogen uptake and transport for environment assisted cracking testing and interpretation of results
A. Turnbull and A. J. Griffiths 39
Corrosion and stress corrosion behaviour of an Mg–Li–Al alloy in presence of inhibitors in aqueous environments
T. V. L. N. Rao, M. V. Bhat, and D. H. Sastry 44
Some derivatives of indole as mild steel corrosion inhibitors in 0·5M sulphuric acid
G. Moretti, G. Quartarone, A. Tassan, and A. Zingales 49
Inhibition of copper corrosion in a simulated cooling water by pyrophthalone compounds
G. Petkova, E. Sokolova, S. Raicheva, and P. Ivanov 55
Effect of substrate porosity on the corrosion behaviour of electroless nickel–phosphorus coated powder metallurgy iron compacts and strip
R. K. Dube and D. Singh 61
Microstructure and corrosion resistance of sputter deposited Fe–Cr–Mo coatings
C. Robyr, P. Mettraux, and D. Landolt 65
Stabilisation of marine iron artefacts
R. Walker 69
Computer simulation of ionic migration during electrochemical chloride extraction from hardened concrete
S. W. Yu and C. L. Page 73
***Technical note* Metal protection by cold sintered silica gel coatings**
L. Mascia and Z. Zhang 76
***Technical note* Corrosion resistance of Acrom 1 Super extra low interstitial ferritic stainless steel**
L. Vehovar 78
Crevice corrosion: a neural network approach
S. P. Trasatti and F. Mazza 105
Application of electrochemical impedance spectroscopy to study perforation corrosion of automotive materials
F. Zhu, S. Hedlund, and D. Thierry 113
Oxidation behaviour of zirconium in molten $(Na,K)NO_3$ eutectic containing halide ions
A. Baraka, H. H. Rehan, M. S. Morsi, and S. A. Abd El-Gawad 119
Role of solution chemistry on corrosion of copper in synthetic solutions: effect of bicarbonate ion concentration on uniform and localised attack
J. N. Alhajji and M. R. Reda 125
Synergistic effects of impurities and sensitisation on intergranular corrosion and stress corrosion cracking in type 316H austenitic stainless steel
P. McIntyre, C. M. Younes, and S. W. Chan 133
***In situ* electrochemical scanning probe microscopy corrosion studies on duplex stainless steel in aqueous NaCl solutions**
E. Schmidt-Rieder, X. Q. Tong, J. P. G. Farr, and M. Aindow 139
Role of alloying elements tin and aluminium in anodic behaviour of homogeneous copper based alloys in 3·5 wt-%NaCl solution
S.-I. Pyun and Y.-G. Chun 147
***Technical note* Comparative study of intergranular corrosion behaviour of three high manganese austenitic stainless steels**
V. S. Raja and A. Ramkumar 153
***Technical note* Control of corrosive wear in grinding balls during wet grinding of Cu–Zn–Fe sulphide ore**
A. W. Lui, V. S. Sastri, M. Elboujdaini, and J. McGoey 158
Corrosion phenomena in coastal area of Arabian Gulf
Z. Ahmad 191
Study of effect of pollutant additions on corrosion behaviour of Al–brass in sea water
H. M. Shalaby, A. Al-Hashem, and K. Al-Muhanna 199
2-aminobenzimidazole as corrosion inhibitor for 70–30 brass in ammonia
S. K. Bag, S. B. Chakraborty, A. Roy, and S. R. Chaudhuri 207
Impedance measurements on Inconel and Monel alloys in Dead Sea water and sulphate solution
M. M. Al-Abdallah 213
Behaviour of stainless steel in simulated concrete pore solution
L. Bertolini, F. Bolzoni, T. Pastore, and P. Pedeferri 218
Stress corrosion cracking and hydrogen embrittlement susceptibility studies on modified 9Cr–1Mo steel weldments in acidic and neutral media
L. J. Berchmans, S. Muralidharan, N. S. Rengaswamy, S. Natarajan, V. Sivan, and S. Venkatakrishna Iyer 223
Corrosion behaviour of mild steel beneath porous plasma sprayed coatings
V. Costa, A. M. Dias, C. M. Rangel, and L. F. Cruz 227
Inhibition of corrosion of iron and aluminium
J. E. O. Mayne 233
***Technical note* Corrosion response of fusion coated austenitic stainless steel**
P. A. Dearnley, M. Oestgaard, A. J. Betts, and G. A. Wright 235
***Technical note* Some factors affecting corrosion resistance of electroless nickel**
M. I. Jafar, M. Broadhurst, and S. A. Ashton 239
***EFC Medal address* Stress corrosion cracking of ferritic steels in acidic solutions**
R. N. Parkins 288
Corrosion resistance of alloyed powder metallurgy austenitic stainless steels in acid solutions
F. Velasco, J. M. Ruiz-Román, J. M. Torralba, and J. M. Ruiz-Prieto 295
Dithizone and thiosemicarbazide as inhibitors of corrosion of type 304 stainless steel in 1·0M sulphuric acid solution
A. Singh and R. S. Chaudhary 300

British Corrosion Journal — Annual contents 1996

Corrosion of PVC coated steel during thinning of 0·5M NaCl electrolyte layer
S.-M. Moon and S.-I. Pyun 35
Implications of hydrogen uptake and transport for environment assisted cracking testing and interpretation of results
A. Turnbull and A. J. Griffiths 39
Corrosion and stress corrosion behaviour of an Mg–Li–Al alloy in presence of inhibitors in aqueous environments
T. V. L. N. Rao, M. V. Bhat, and D. H. Sastry 44
Some derivatives of indole as mild steel corrosion inhibitors in 0·5M sulphuric acid
G. Moretti, G. Quartarone, A. Tassan, and A. Zingales 49
Inhibition of copper corrosion in a simulated cooling water by pyrophthalone compounds
G. Petkova, E. Sokolova, S. Raicheva, and P. Ivanov 55
Effect of substrate porosity on the corrosion behaviour of electroless nickel–phosphorus coated powder metallurgy iron compacts and strip
R. K. Dube and D. Singh 61
Microstructure and corrosion resistance of sputter deposited Fe–Cr–Mo coatings
C. Robyr, P. Mettraux, and D. Landolt 65
Stabilisation of marine iron artefacts
R. Walker 69
Computer simulation of ionic migration during electrochemical chloride extraction from hardened concrete
S. W. Yu and C. L. Page 73
***Technical note* Metal protection by cold sintered silica gel coatings**
L. Mascia and Z. Zhang 76
***Technical note* Corrosion resistance of Acrom 1 Super extra low interstitial ferritic stainless steel**
L. Vehovar 78
Crevice corrosion: a neural network approach
S. P. Trasatti and F. Mazza 105
Application of electrochemical impedance spectroscopy to study perforation corrosion of automotive materials
F. Zhu, S. Hedlund, and D. Thierry 113
Oxidation behaviour of zirconium in molten $(Na,K)NO_3$ eutectic containing halide ions
A. Baraka, H. H. Rehan, M. S. Morsi, and S. A. Abd El-Gawad 119
Role of solution chemistry on corrosion of copper in synthetic solutions: effect of bicarbonate ion concentration on uniform and localised attack
J. N. Alhajji and M. R. Reda 125
Synergistic effects of impurities and sensitisation on intergranular corrosion and stress corrosion cracking in type 316H austenitic stainless steel
P. McIntyre, C. M. Younes, and S. W. Chan 133
***In situ* electrochemical scanning probe microscopy corrosion studies on duplex stainless steel in aqueous NaCl solutions**
E. Schmidt-Rieder, X. Q. Tong, J. P. G. Farr, and M. Aindow 139
Role of alloying elements tin and aluminium in anodic behaviour of homogeneous copper based alloys in 3·5 wt-%NaCl solution
S.-I. Pyun and Y.-G. Chun 147
***Technical note* Comparative study of intergranular corrosion behaviour of three high manganese austenitic stainless steels**
V. S. Raja and A. Ramkumar 153
***Technical note* Control of corrosive wear in grinding balls during wet grinding of Cu–Zn–Fe sulphide ore**
A. W. Lui, V. S. Sastri, M. Elboujdaini, and J. McGoey 158
Corrosion phenomena in coastal area of Arabian Gulf
Z. Ahmad 191
Study of effect of pollutant additions on corrosion behaviour of Al–brass in sea water
H. M. Shalaby, A. Al-Hashem, and K. Al-Muhanna 199
2-aminobenzimidazole as corrosion inhibitor for 70–30 brass in ammonia
S. K. Bag, S. B. Chakraborty, A. Roy, and S. R. Chaudhuri 207
Impedance measurements on Inconel and Monel alloys in Dead Sea water and sulphate solution
M. M. Al-Abdallah 213
Behaviour of stainless steel in simulated concrete pore solution
L. Bertolini, F. Bolzoni, T. Pastore, and P. Pedeferri 218
Stress corrosion cracking and hydrogen embrittlement susceptibility studies on modified 9Cr–1Mo steel weldments in acidic and neutral media
L. J. Berchmans, S. Muralidharan, N. S. Rengaswamy, S. Natarajan, V. Sivan, and S. Venkatakrishna Iyer 223
Corrosion behaviour of mild steel beneath porous plasma sprayed coatings
V. Costa, A. M. Dias, C. M. Rangel, and L. F. Cruz 227
Inhibition of corrosion of iron and aluminium
J. E. O. Mayne 233
***Technical note* Corrosion response of fusion coated austenitic stainless steel**
P. A. Dearnley, M. Oestgaard, A. J. Betts, and G. A. Wright 235
***Technical note* Some factors affecting corrosion resistance of electroless nickel**
M. I. Jafar, M. Broadhurst, and S. A. Ashton 239
***EFC Medal address* Stress corrosion cracking of ferritic steels in acidic solutions**
R. N. Parkins 288
Corrosion resistance of alloyed powder metallurgy austenitic stainless steels in acid solutions
F. Velasco, J. M. Ruiz-Román, J. M. Torralba, and J. M. Ruiz-Prieto 295
Dithizone and thiosemicarbazide as inhibitors of corrosion of type 304 stainless steel in 1·0M sulphuric acid solution
A. Singh and R. S. Chaudhary 300

Effect of benzotriazole on electrochemical and corrosion behaviour of type 304 stainless steel in 2M sulphuric acid solution
P. R. P. Rodrigues, I. V. Aoki, A. H. P. de Andrade, E. de Oliveira, and S. M. L. Agostinho **305**
Effect of iron dilution on corrosion resistance of Ni–Cr–Mo alloy cladding
M. F. Gittos and T. G. Gooch **309**
Inhibition of corrosion of aluminium pigments by *ortho*-substituted phenol and aniline derivatives
B. Müller **315**
***Technical note* Evidence of dissolution–redeposition mechanism in activation of aluminium by indium**
A. Venugopal and V. S. Raja **318**

Appreciations
George Peter Rothwell **3**
J. H. Morgan **274**
Bengough Award 1996 . . . . **81**
Book reviews **32, 188, 276**
Conference reports
Corrosion standards II: recent advances **25**
UK Corrosion '95 . . . . **26**
8th European Symposium on Corrosion Inhibitors **29**
European workshop on sea water corrosion of stainless steels: mechanisms and experiences **104**
Corrosion and Prevention '95 . . . . **187**
37th Corrosion Science Symposium **279**
Eurocorr '96 . . . . **281**
Corrosion monitoring in remote and hostile locations **248**
Corrosion news and views **1, 81, 161, 242**
Forthcoming corrosion events **18, 98, 181, 268**
Institute of Materials AGM **85**
Obituaries
D. B. Meadowcroft **163**
J. E. O. Mayne **275**
Standards news **24, 103, 188**